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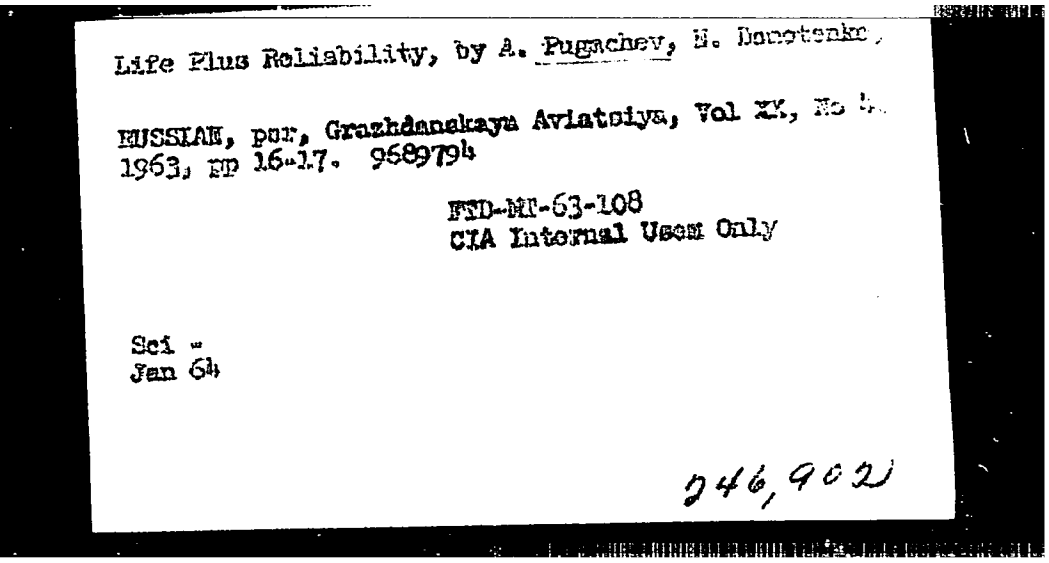

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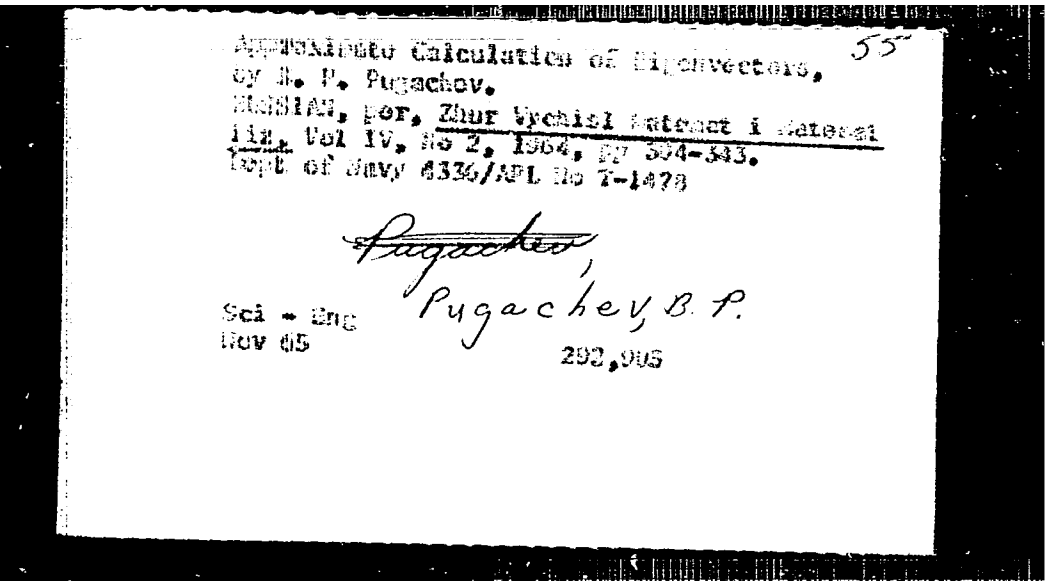

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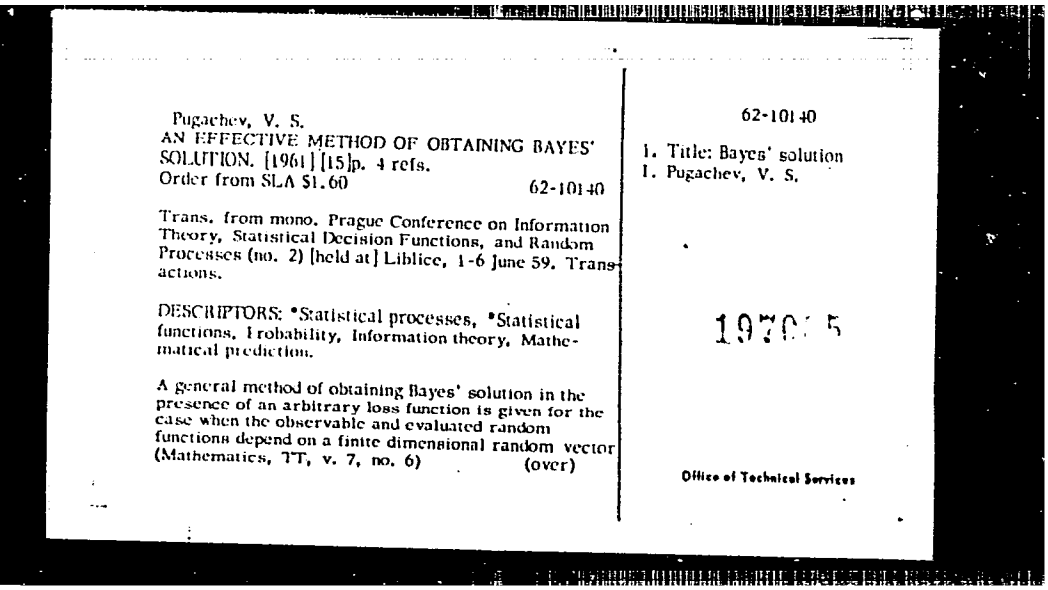

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Trans. from mono. Prague Conference on Information Theory, Statistical Decision Functions, and Random Processes (no. 2) [held at] Liblice, 1-6 June 59. Transactions.

DESCRIPTORS: *Statistical processes, *Statistical functions, Probability, Information theory, Mathematical prediction.

A general method of obtaining Bayes' solution in the presence of an arbitrary loss function is given for the case when the observable and evaluated random functions depend on a finite dimensional random vector (Mathematics, TT, v. 7, no. 6) (over)

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Trans. of Akad[emiya] Nauk SSSR. O[tdelenie] T[ekhnicheskikh] Nauk. Izvest[iya]: Energetika i Avtomatika, 1960, no. 2, p. 83-97. 9099737

DESCRIPTORS: *Signals, Detection, Reproduction, Noise, Statistical processes, *Probability, *Control systems.

A method is described for determining the optimum system from the general Bayes criterion in the case when the input observed function and the signal being (Engineering--Electronic, TT, v. 6, no. 10) (over)

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Trans. of A[kademiya] N[auk] SSSR. O[tdelenie] T[ekhnicheskikh] N[auk]. Izv[estiya]: Energ[etika] i Avto[matika] 1961, no. 5, p. 123-135.

DESCRIPTORS: *Signals, *Detection, *Statistical functions, Theory, Analysis, Probability, Series, Mathematical expectation.

The article presents the theory of joint canonical expansions of two random functions in one and the same system of coordinate functions, and its application to the solution of problems in the detection and evaluation (including selection) of signals which depend on an
(Research Methods--Communication Theory, TT, v. 9, no. 11)
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1. Title: Optimization
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THE GENERAL THEORY OF RANDOM FUNCTIONS AND ITS APPLICATION TO AUTOMATIC CONTROL (Obshchaya Teoriya Sluchainykh Funktsii i Ee Primenenie v Teorii Avtomaticheskofo Regulirovaniya). [1961] [53]p. (foreign text included) 17 refs. [DSIR NLL] M. 3084.
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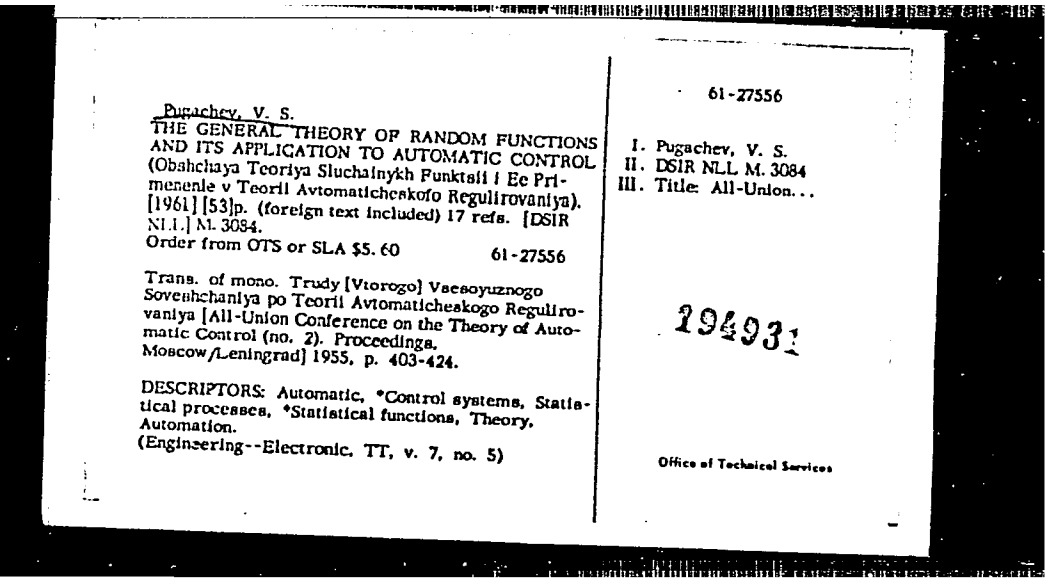

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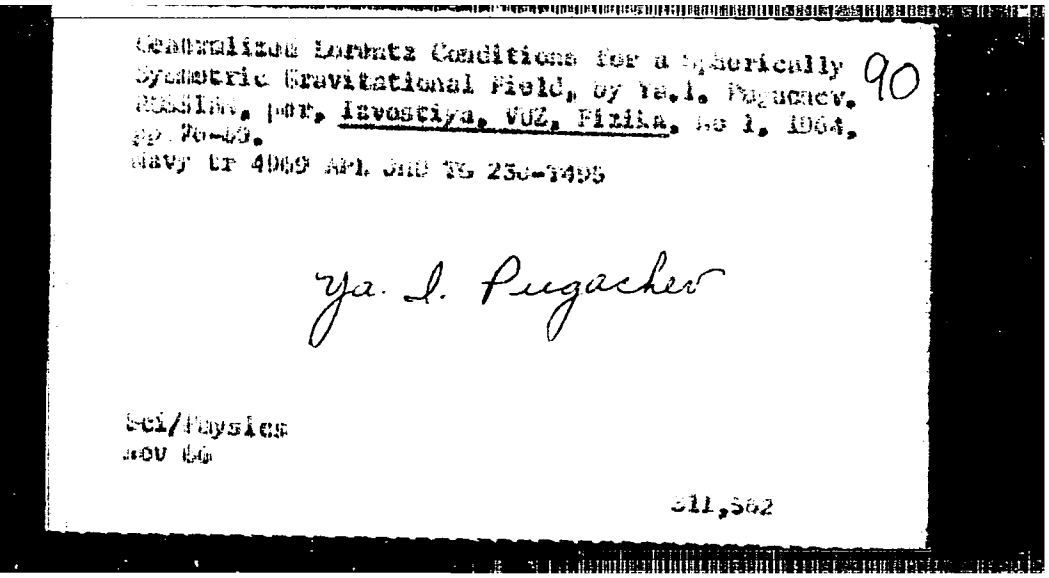

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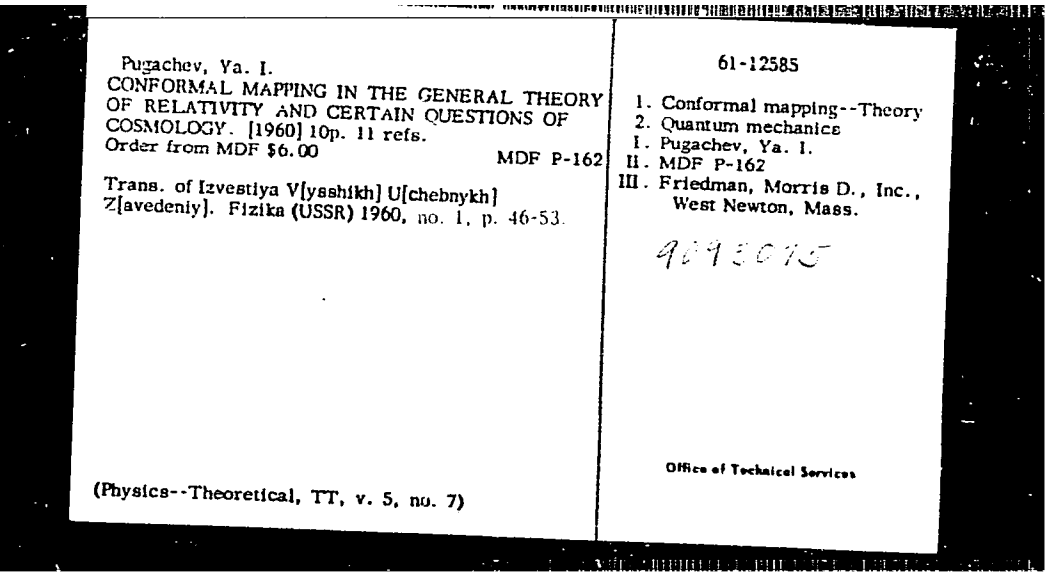

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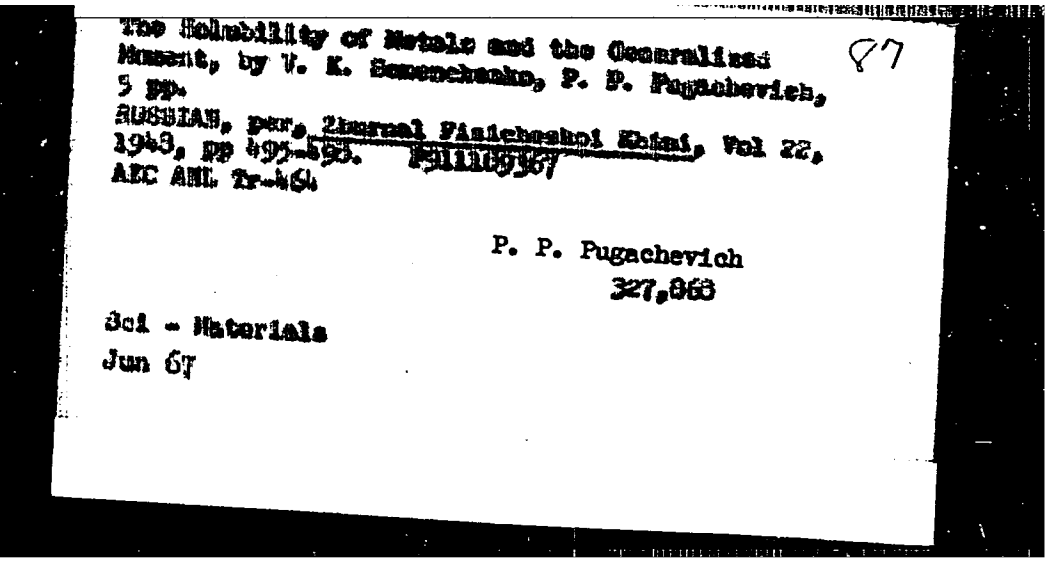

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The Surface Tensions of Ternary Hg-Cd-K Metallic Solutions at 22° C., by P.P. Pugachevich, V. B. Lazarev, 4 pp.

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Surface Phenomena in the Ternary Metallic Solutions Hg-Cd-K and Hg-Cd -Cs at 22°. by
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Temperature Dependence of the Surface Tension of Bismuth and Its Alloys with ~~Sodium~~ Sodium and Potassium, by P. P. Pugachevich, I. P Altuinov, 6 pp.

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(NY-6503)

THE PROBLEM OF THE HYGIENIC REQUIREMENTS IN
WORKING WITH RADIOACTIVE LUMINESCENT DYES WHICH
ARE CONSTANTLY ACTIVE

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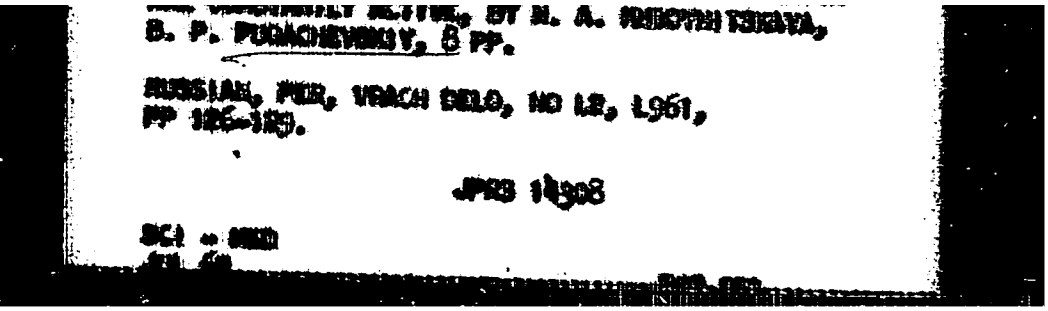

[redacted], ET M. A. [redacted],
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PP 126-[redacted].

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Increasing the Protein Content of Corn Through Selection, by A. E. Kovarskiy, B.P. Pugalov. RUSSIAN, per. Vest Sel'skokh Nauki, No 10, 1961, pp 18-27. 9220140

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Pugachev, V. S.
A METHOD OF DETERMINATION OF THE OPTIMUM SYSTEM FROM THE GENERAL BAYES CRITERION (Metod Opredeleniya Optimul'noi Sistemy po Obshchemu Biesovu Kriteriyu). [1961] [23]p. (equations omitted) 12 refs. [DSIR LLU] M. 3128.
Order from OTS or SLA $2.60 61-27534

Trans. of Akad[emiya] Nauk SSSR. O[tdelenie] T[ekhnicheskikh] Nauk. Izvest[iya]: Energetika i Avtomatika, 1960, no. 2, p. 83-97. 9099 737

DESCRIPTORS: *Signals, Detection, Reproduction, Noise, Statistical processes, *Probability, *Control systems.

A method is described for determining the optimum system from the general Bayes criterion in the case when the input observed function and the signal being (Engineering--Electronic, TT, v. 6, no. 10) (over)

61-27534

1. Title: Bayes criterion
I. Pugachev, V. S.
II. DSIR LLU M. 3128

Office of Technical Services

APPROVED FOR RELEASE: 09/13/ 2001 CIA-RDP84-00581R000100440032-4

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detected or reproduced depend on a finite-dimensional random vector U while the noise is additive, has a normal distribution, and is independent of the vector U. In some cases this method can be used when the vector U has an infinite (countable) number of components. The method for the case of linear dependence of the input function on the vector $U^{(1)}$ is a special case developed by the author earlier. The method can also be applied to problems in which the input function can be reduced by means of a nonlinear transformation independent of the vector U to a sum of a certain function of vector U and the normally distributed noise independent of this vector.

PB- 61-27534

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JPRS 10282

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Sci - Phys

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Integral Canonical Representation of Random Functions and Their Application in Deriving Optimal Linear Systems, by V. S. Pugachev, 15 p.

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I. Construction and Methods of Application,
by V. Pugachev, B. Marisov, 10pp
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CPSTI TT-64-71260

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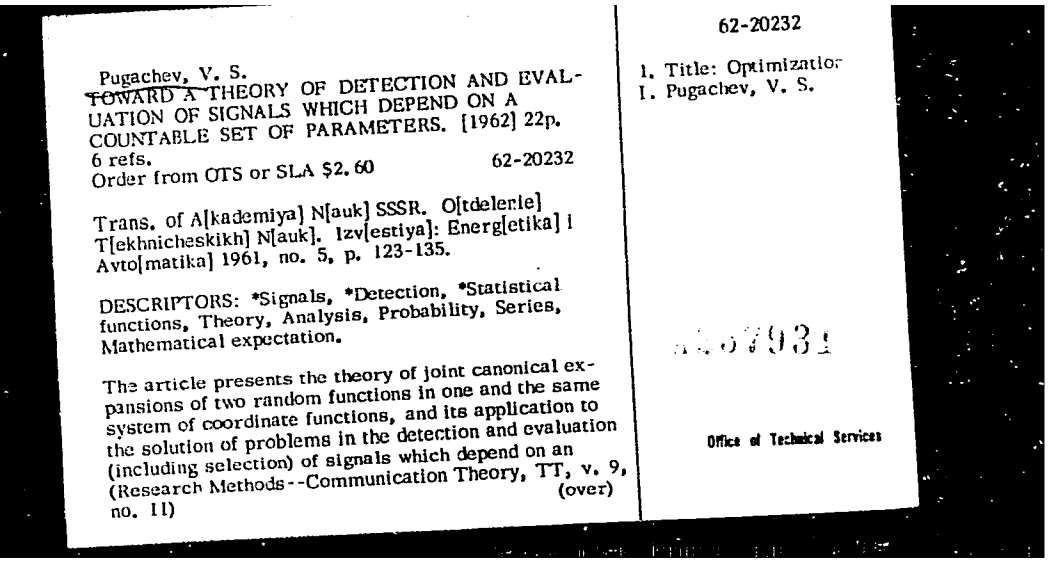

Pugachev, V. S.
TOWARD A THEORY OF DETECTION AND EVALUATION OF SIGNALS WHICH DEPEND ON A COUNTABLE SET OF PARAMETERS. [1962] 22p.
6 refs.
Order from OTS or SLA $2.60 62-20232

Trans. of A[kademiya] N[auk] SSSR. O[tdelenie] T[ekhnicheskikh] N[auk]. Izv[estiya]: Energ[etika] i Avto[matika] 1961, no. 5, p. 123-135.

DESCRIPTORS: *Signals, *Detection, *Statistical functions, Theory, Analysis, Probability, Series, Mathematical expectation.

The article presents the theory of joint canonical expansions of two random functions in one and the same system of coordinate functions, and its application to the solution of problems in the detection and evaluation (including selection) of signals which depend on an
(Research Methods--Communication Theory, TT, v. 9, no. 11) (over)

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1. Title: Optimization
I. Pugachev, V. S.

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infinite (countable) set of parameters. This theory gives a general algorithm for optimal processing of input functions of systems designed for signal evaluation on the basis of any Bayes criterion corresponding to a polynomical less function, and also of signal detection systems. (Author)

PB-

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The General Condition for the Minimum Mean-Square Error in a Dynamic System, by V. S. Pugachev, 8 pp.

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The Use of Canonical Expansions of Random Functions in Determining an Optimum Linear System, by V. S. Pugachev, 12 pp.

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The Determination of an Optimal System by Some Arbitrary Criterion, by V. S. Pugachev, 20 p.

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Pugachev, V. S.
THE GENERAL THEORY OF RANDOM FUNCTIONS AND ITS APPLICATION TO AUTOMATIC CONTROL (Obshchaya Teoriya Sluchainykh Funktsii i Ee Primenenie v Teorii Avtomaticheskofo Regulirovaniya). [1961] [53]p. (foreign text included) 17 refs. [DSIR NLL] M. 3084.
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Trans. of mono. Trudy [Vtorogo] Vsesoyuznogo Soveshchaniya po Teorii Avtomaticheskogo Regulirovaniya [All-Union Conference on the Theory of Automatic Control (no. 2). Proceedings, Moscow/Leningrad] 1955, p. 403-424.

DESCRIPTORS: Automatic, *Control systems, Statistical processes, *Statistical functions, Theory, Automation.
(Engineering--Electronic, TT, v. 7, no. 5)

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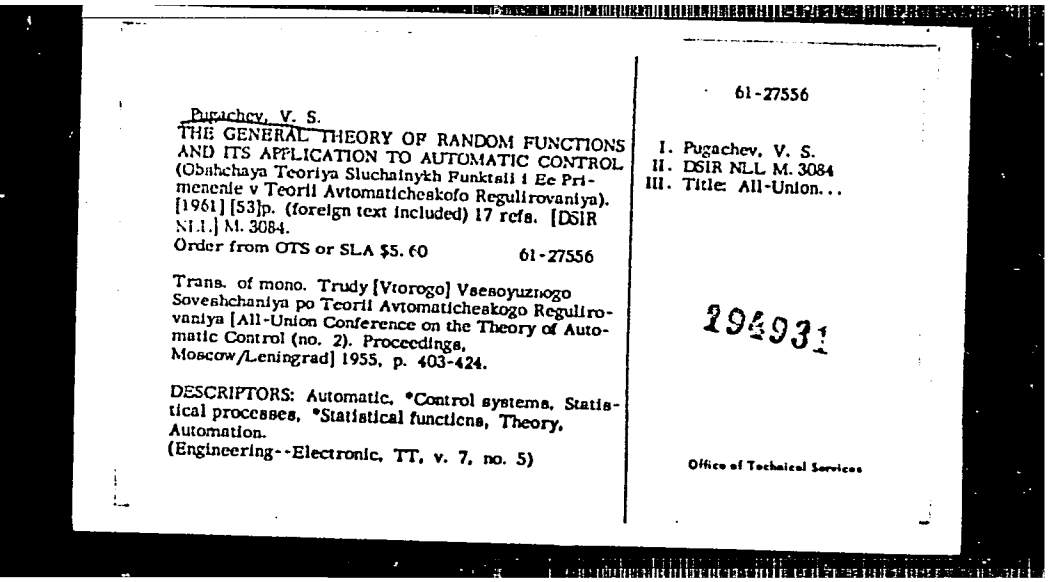

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THE GENERAL THEORY OF RANDOM FUNCTIONS AND ITS APPLICATION TO AUTOMATIC CONTROL (Obshchaya Teoriya Sluchaynykh Funktsii i Ee Primenenie v Teorii Avtomaticheskofo Regulirovaniya). [1961] [53]p. (foreign text included) 17 refs. [DSIR NLL] M. 3084.
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DESCRIPTORS: Automatic, *Control systems, Statistical processes, *Statistical functions, Theory, Automation.
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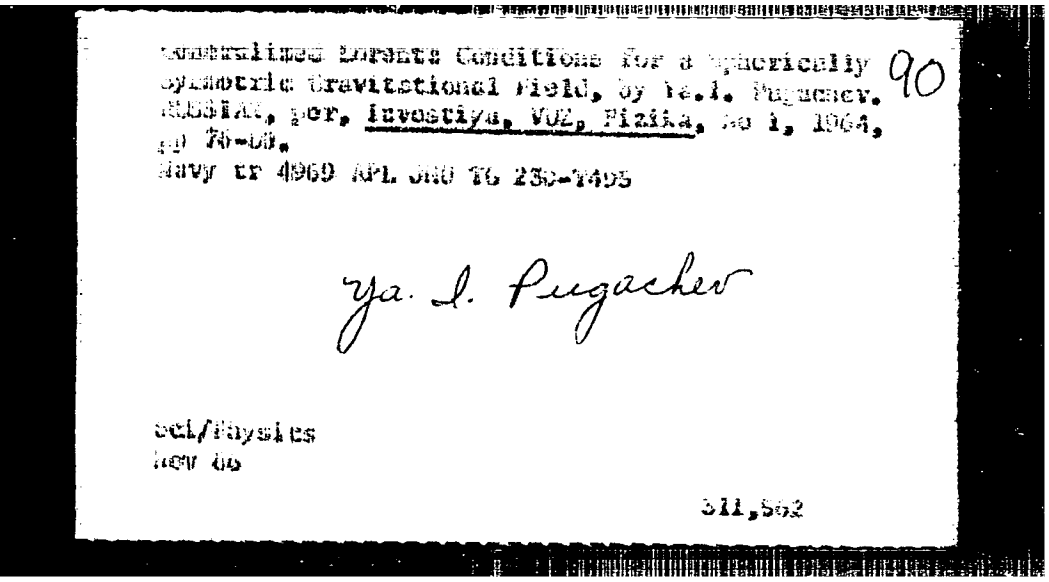

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Surface Phenomena in the Ternary Metallic Solutions Hg-Cd-K and Hg-Cd -Cs at 22°. hy
P. P. Pugachevich and V. B. Lazarev, 4 pp

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Sci Mu Lib No 54/2678

Scientific - Min/Metals

Nov 1954 CTS 19,689

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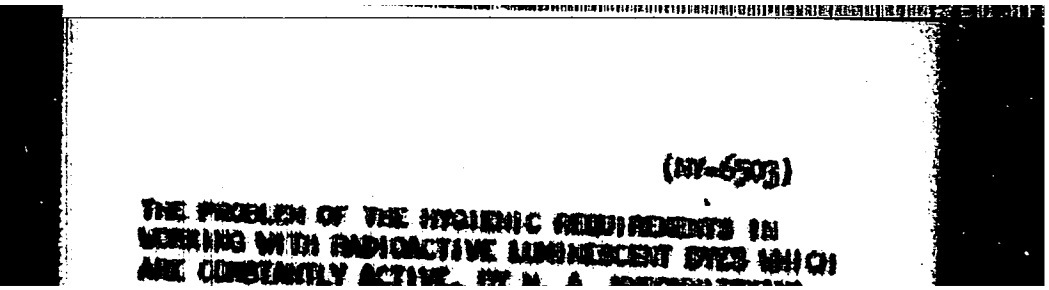

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THE PROBLEM OF THE HYGIENIC REQUIREMENTS IN
WORKING WITH RADIOACTIVE LUMINESCENT DYES WHICH
ARE CONSTANTLY ACTIVE. BY M. A.

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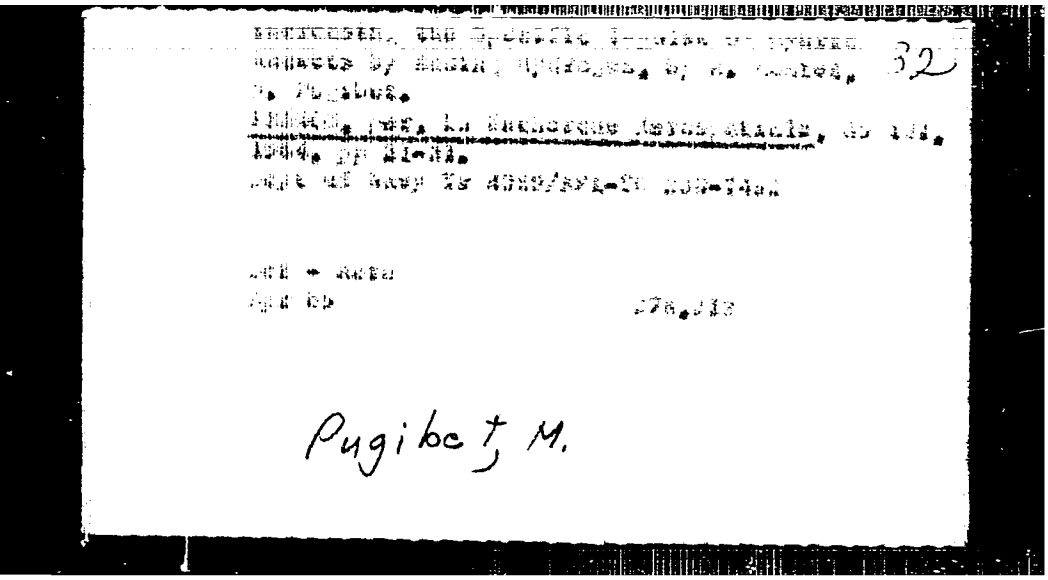

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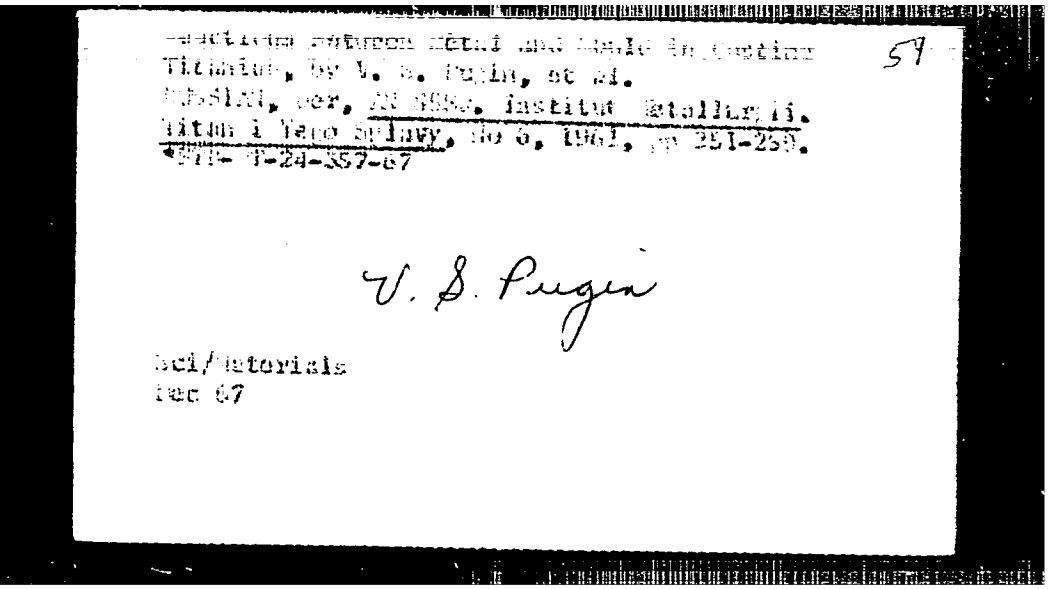

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